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L43	L42 and (centroid or geocenter or geo-center)	27	L43
L42	(map near radials or map with radials or map adj radials)	834	L42
L41	701/208	2343	L41
L40	701/207	2534	L40
L39	709/207	1449	L39
L38	709/217	7623	L38
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L36	705/10	2736	L36
L35	705.clas.	39162	L35
L34	701.clas.	35374	L34
L33	709.clas.	41494	L33
L32	707.clas.	31824	L32

L31	707/104.1	5290	L31
L30	707/10	11195	L30
L29	707/7	1724	L29
L28	707/6	3265	L28
L27	707/5	3797	L27
L26	707/3	7853	L26
L25	707/3	7853	L25

DB=USPT; PLUR=YES; OP=OR

L24	'6396920'.pn.	1	L24
L23	'6396920'.pn.	1	L23
L22	'6055522'.pn.	1	L22
L21	'6069627'.pn.	1	L21
L20	'6212392'.pn.	1	L20
L19	'6212392'.pn.	1	L19

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L18	L16 and (geocoded or geocod$ or geo-coded) near3 (database or data with base or data near base)	5	L18
L17	L16 and (geocoded or geocod$ or geo-coded) near3 (database or data with base)	5	L17
L16	"computer program product".clm.	29060	L16
L15	L14 and (radials or lines or centroids or points)	51	L15
L14	L12 and (anchor near4 point or anchor with point or anchor adj point or star)	53	L14
L13	L12 and (anchor near4 point or anchor with point or anchor adj point)	6	L13
L12	(geocod$ or geocoded or geocoding or geo-coded)	618	L12
L11	('5487139')[URPN]	16	L11

DB=USPT; PLUR=YES; OP=OR

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DB=USPT; PLUR=YES; OP=OR

| L8 | (5982868 \| 5636122 \| 5634049 \| 4879658 \| 5381338 \| 5553407 \| 5448696 \| 5594650 \| 5568384 \| 5532838 \| 5210868 \| 4888699 \| 5426780 \| 5794178 \| 5533107 \| 5901214 \| 4827419 \| 5506897 \| 4989151 \| 5470233 \| 5133052 \| 5487139 \| 5646629 \| 5546578 \| 4982332 \| 4839700)![PN] | 26 | L8 |

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

L7	('6101496')[ABPN1,NRPN,PN,TBAN,WKU]	2	L7
L6	5487139.pn.	2	L6
L5	5946687.pn.	2	L5
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   L15: Entry 10 of 51   File: PGPB   Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050018822
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050018822 A1

TITLE: Method and system for providing quick directions

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:
NAME	CITY	STATE	COUNTRY
Bruce, Les	Sunnyvale	CA	US
Sinder, Michael Jay	Chicago	IL	US
Mullarkey, Michael F.	Flossmoor	IL	US
Berry, Joseph Jamal	Dearborn	MI	US

APPL-NO: 10/864293   [PALM]
DATE FILED: June 8, 2004

RELATED-US-APPL-DATA:
Application 10/864293 is a continuation-of US application 10/336237, filed January
3, 2003, US Patent No. 6765998
Application 10/336237 is a continuation-of US application 09/114841, filed July 14,
1998, US Patent No. 6539080

INT-CL-PUBLISHED: [07] H04 M 11/00, H04 M 3/42

US-CL-PUBLISHED: 379/088.18; 379/088.16
US-CL-CURRENT: 379/88.18; 379/88.16

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

A method and system for providing a telephone caller information assistance such as
driving directions from a starting location to a destination location. To obtain
information assistance, the caller places a telephone call to access the system. If
the geographical location of the caller can be determined by an automatic location
identification system it is displayed on an operator console where the caller's
request is transferred to be handled by a live operator. The operator receives the
caller's destination request and queries the system for the street route driving
instructions to the requested destination. After obtaining the street route driving
instructions, the call can be transferred to an audio box having an interactive
user interface capable of replaying the desired information to the caller. In an
illustrative embodiment, the interactive user interface is capable providing
functions to stop, start, pause, and replay the information to the caller.

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. patent application Ser. No. 10/336,237, filed Jan. 3, 2003, which is a continuation of U.S. patent application Ser. No. 09/114,841, filed Jul. 14, 1998 (now U.S. Pat. No. 6,539,080), each of which is hereby incorporated by reference.

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Geographic base files and the world of Polk

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Source   **ACM/CSC-ER** archive
Proceedings of the ACM 1980 annual conference table of contents
Pages: 42 - 48
Year of Publication: 1980
ISBN:0-89791-028-1

Author   Morton A Meyer

Sponsor   ACM: Association for Computing Machinery

Publisher   ACM Press   New York, NY, USA

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↑ ABSTRACT

Despite the fact that R. L. Polk & Co. is an international organization operating in western Europe, Canada and Australia as well as the United States, and has been a going and growing concern for close to 110 years, it is highly probable that most members of ACM have never heard of us. The reason, of course, is very simple. Each organization impinges only very lightly on the interests of the other. There are three divisions within Polk which rely upon computerized geographic base files for geocoding their products to cities and their sub-areas, that is census tracts or block groups and very important-user defined areas such as neighborhoods, traffic zones and councilmanic districts.

↑ INDEX TERMS

Primary Classification:
J. Computer Applications
↳ **J.7** COMPUTERS IN OTHER SYSTEMS
↳ **Subjects:** Real time

Additional Classification:
H. Information Systems
↳ **H.2** DATABASE MANAGEMENT
↳ **H.2.8** Database applications
↳ **Subjects:** Spatial databases and GIS

General Terms:

Management, Theory

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- Data structures for quadtree approximation and compression
  Communications of the ACM 28, 9
  Hanan Samet

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  Kim S. Lee , Huizhu Lu , D. D. Fisher

- Putting innovation to work: adoption strategies for multimedia communication systems
  Communications of the ACM 34, 12
  Ellen Francik , Susan Ehrlich Rudman , Donna Cooper , Stephen Levine

- The GemStone object database management system
  Communications of the ACM 34, 10
  Paul Butterworth , Allen Otis , Jacob Stein

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  Proceedings of the 27th ACM/IEEE conference on Design automation
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1   Distributed data sources: Exploiting online sources to accurately geocode addresses ◼

Rahul Bakshi, Craig A. Knoblock, Snehal Thakkar

November 2004 **Proceedings of the 12th annual ACM international workshop on Geographic information systems**

Publisher: ACM Press

Full text available: 📄 pdf(1.03 MB)   Additional Information: full citation, abstract, references, index terms

Many Geographic Information System (GIS) applications require the conversion of an address to geographic coordinates. This process is called geocoding. The traditional geocoding method uses a street vector data source, such as, Tigerlines, to obtain address range and coordinates of the street segment on which the given address is located. Next, an approximation technique is used to estimate the location of the given address using the address range of the selected street segment. However, this ...

Keywords: geocoder, geospatial data integration, information integration, mediator

2   Automated Generation of Visual Simulation Databases Using Remote Sensing and GIS ◼

Martin Suter, D. Nuesch

October 1995 **Proceedings of the 6th conference on Visualization '95**

Publisher: IEEE Computer Society

Full text available: 📄 pdf(1.15 MB) ▨   Additional Information: full citation, abstract, citings
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This paper reports on the development of a strategy to generate databases used for real-time interactive landscape visualization. The database construction from real world data is intended to be as automated as possible. The primary sources of information are remote sensing imagery recorded by Landsat's Thematic Mapper (TM) and digital elevation models (DEM). Additional datasets (traffic networks and buildings) are added to extend the database. In a first step the TM images are geocoded and then ...

Keywords: remote sensing, geographic information systems, geographic databases, satellite images, classification, visual simulation, level of detail

3   Reformulating query plans for multidatabase systems ◼

Chun-Nan Hsu, Craig A. Knoblock

December 1993 **Proceedings of the second international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(1.00 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

4 <u>Geospatial mapping and navigation of the web</u>
Kevin S. McCurley
April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(1.06 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: browsers, geographic information systems, geospatial information retrieval, navigation

5 <u>Geographic information systems education for non-computer oriented college students</u>
Harold G. Campbell
September 1994 **ACM SIGCSE Bulletin**, Volume 26 Issue 3
Publisher: ACM Press
Full text available: pdf(443.52 KB)   Additional Information: <u>full citation</u>, <u>index terms</u>

6 <u>Ubiquitous computing (UC): Route profiling: putting context to work</u>
Anthony Harrington, Vinny Cahill
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(232.60 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Intelligent Transportation Systems are characterised by a requirement for detailed information on extensive transport networks. This information is typically gathered from sensors deployed throughout the network and is used for management and maintenance operations.In this paper we present the design and prototype implementation of a context-aware route profiling application intended for use by road management authorities in the Republic of Ireland. Our design allows data from a variety of sourc ...

Keywords: ITS, context-aware, ubiquitous computing

7 <u>New approaches in GIR: Geographic web search based on positioning expressions</u>
Tiago M. Delboni, Karla A. V. Borges, Alberto H. F. Laender
November 2005 **Proceedings of the 2005 workshop on Geographic information retrieval GIR '05**
Publisher: ACM Press
Full text available: pdf(206.73 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper, we explore the use of natural language expressions to perform geographic searches on the Web, without resorting to geocoded data. Such expressions denote the positioning of a subject with respect to a landmark --- a valuable source of geographical context embedded in the unstructured text of Web documents. Our approach leads to novel query expansion techniques that can be explored by virtually any keyword--based search engine.

8 Why are geographic information systems hard to use?
Carol Traynor, Marian G. Williams
May 1995 **Conference companion on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(247.61 KB) Additional Information: full citation, references, citings, index terms

9 Query processing: Spatial hierarchy and OLAP-favored search in spatial data warehouse
Fangyan Rao, Long Zhang, Xiu Lan Yu, Ying Li, Ying Chen
November 2003 **Proceedings of the 6th ACM international workshop on Data warehousing and OLAP**
Publisher: ACM Press
Full text available: pdf(197.48 KB)   Additional Information: full citation, abstract, references, index terms

Data warehouse and Online Analytical Processing(OLAP) play a key role in business intelligent systems. With the increasing amount of spatial data stored in business database, how to utilize these spatial information to get insight into business data from the geo-spatial point of view is becoming an important issue of data warehouse and OLAP. However, traditional data warehouse and OLAP tools can not fully exploit spatial data in coordinates because multi-dimensional spatial data does not have im ...

Keywords: spatial OLAP, spatial data warehouse, spatial hierarchy

10 Statistical methods II: Shrinkage estimator generalizations of Proximal Support Vector Machines
Deepak K. Agarwal
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**
Publisher: ACM Press
Full text available: pdf(1.14 MB)   Additional Information: full citation, abstract, references, citings, index terms

We give a statistical interpretation of Proximal Support Vector Machines (PSVM) proposed at KDD2001 as linear approximaters to (nonlinear) Support Vector Machines (SVM). We prove that PSVM using a linear kernel is identical to ridge regression, a biased-regression method known in the statistical community for more than thirty years. Techniques from the statistical literature to estimate the tuning constant that appears in the SVM and PSVM framework are discussed. Better shrinkage strategies that ...

Keywords: Bayesian models, bias-variance tradeoff, classification, correlation, kernel, regression

11 Mobility support and location awareness: Developing spatially-aware content management systems for dynamic, location-specific information in mobile environments
Harsha Tummala, Joel Jones
September 2005 **Proceedings of the 3rd ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '05**
Publisher: ACM Press
Full text available: pdf(1.06 MB)   Additional Information: full citation, abstract, references, index terms

Current location-aware information systems lack an effective method of maintaining and updating dynamic, location-specific content. We have developed a design for representing location-specific content that balances flexibility and comprehensibility. We have developed a web-based content management system that implements this design. The system provides an easy-to-use interface to tie any form of media-such as text, pictures, audio, or video-to a location.This work is directly applicable to vari ...

Keywords: content management, context-aware services, location-aware applications, mobile computing, user-driven information systems

12 <u>System demonstrations (b): Digital governance for animal health and biosecurity</u>
<u>applications</u>
Gale Wagner, Arnie Vedlitz, Surya Waghela
May 2005 **Proceedings of the 2005 national conference on Digital government research dg.o2005**
Publisher: Digital Government Research Center
Full text available: pdf(53.10 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>

This project brings together components of animal disease biology, information technology (IT), public policy and social sciences in research that will provide more effective means of ensuring food, animal, and human health biosecurity against intentional disease introductions.Since 9/11, policies, protocols and governance in the area of animal health deal primarily with detection and control of disease outbreaks, but must also consider a larger context that includes food security, human health ...

13 <u>Complementary video and audio analysis for broadcast news archives</u>
Howard D. Wactlar, Alexander G. Hauptmann, Michael G. Christel, Ricky A. Houghton, Andreas M. Olligschlaeger
February 2000 **Communications of the ACM**, Volume 43 Issue 2
Publisher: ACM Press
Full text available: pdf(306.49 KB)
                    html(24.06 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

14 <u>Image and video analysis: Automatically and accurately conflating orthoimagery and</u>
<u>street maps</u>
Ching-Chien Chen, Craig A. Knoblock, Cyrus Shahabi, Yao-Yi Chiang, Snehal Thakkar
November 2004 **Proceedings of the 12th annual ACM international workshop on Geographic information systems**
Publisher: ACM Press
Full text available: pdf(3.25 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Recent growth of the geospatial information on the web has made it possible to easily access various maps and orthoimagery. By integrating these maps and imagery, we can create intelligent images that combine the visual appeal and accuracy of imagery with the detailed attribution information often contained in diverse maps. However, accurately integrating maps and imagery from different data sources remains a challenging task. This is because spatial data obtained from various data sources ma ...

Keywords: conflation, orthoimagery, point pattern matching, street maps

15 <u>Modeling methodology b: Parallel and Distributed Simulation: distributed spatio-</u>
<u>temporal modeling and simulation</u>

Thomas Schulze, Andreas Wytzisk, Ingo Simonis, Ulrich Raape
December 2002 **Proceedings of the 34th conference on Winter simulation: exploring
new frontiers**
Publisher: Winter Simulation Conference
Full text available: 📄 pdf(518.37 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

> The objective of upcoming research in the field of geoprocessing is to evolve
> interoperability standards to develop flexible and scalable controlling and simulation
> services. In order to overcome the limitations of proprietary solutions, efforts have been
> made to support interoperability among simulation models and geo information systems
> (GIS). Existing standards in the domain of spatial information and spatial services define
> geoinformation (GI) in a more or less static way. Though time can ...

16 <u>Pervasive computing: what is it good for?</u>
Andrew C. Huang, Benjamin C. Ling, Shankar Ponnekanti
August 1999 **Proceedings of the 1st ACM international workshop on Data engineering
for wireless and mobile access**
Publisher: ACM Press
Full text available: 📄 pdf(897.82 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

17 <u>Geographic base files and the world of Polk</u>
Morton A Meyer
January 1980 **Proceedings of the ACM 1980 annual conference**
Publisher: ACM Press
Full text available: 📄 pdf(666.03 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

> Despite the fact that R. L. Polk & Co. is an international organization operating in western
> Europe, Canada and Australia as well as the United States, and has been a going and
> growing concern for close to 110 years, it is highly probable that most members of ACM
> have never heard of us. The reason, of course, is very simple. Each organization impinges
> only very lightly on the interests of the other. There are three divisions within Polk which
> rely upon computerized geographic ...

18 <u>A "roads" data model: a necessary component for feature-based map generalization</u>
Leone Barnett, John V. Carlis
November 1996 **Proceedings of the 4th ACM international workshop on Advances in
geographic information systems**
Publisher: ACM Press
Full text available: 📄 pdf(868.27 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

19 <u>Components of GIR: Detecting geographic locations from web resources</u>
Chuang Wang, Xing Xie, Lee Wang, Yansheng Lu, Wei-Ying Ma
November 2005 **Proceedings of the 2005 workshop on Geographic information
retrieval GIR '05**
Publisher: ACM Press
Full text available: 📄 pdf(508.04 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> The rapid pervasion of the web into users' daily lives has put much importance on
> capturing location-specific information on the web, due to the fact that most human
> activities occur locally around where a user is located. This is especially true in the
> increasingly popular mobile and local search environments. Thus, how to correctly and
> effectively detect geographic locations from web resources has become a key challenge to
> location-based web applications. In our previous work, we proposed to e ...

Keywords: content location, dominant location, location-based web application, provider location, serving location, web location

20 The geographic information systems (GIS) standards infrastructure

Henry Tom
September 1994 **StandardView**, Volume 2 Issue 3
Publisher: ACM Press
Full text available: pdf(1.32 MB)   Additional Information: full citation, references, index terms, review

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Georoute: a geographic information system for transportation applications

Authors   Guy Lapalme   Univ. de Montre´al, Montre´al, Que´bec, Canada
             Jean-Marc Rousseau Univ. de Montre´al, Montre´al, Que´bec, Canada; GIRO Inc.; LOGIROUTE Computer Systems Inc.
             Suzanne Chapleau   LOGIROUTE Computer Systems Inc., Montre´al, Que´bec, Canada
             Michel Cormier   LOGIROUTE Computer Systems Inc., Montre´al, Que´bec, Canada
             Pierre Cossette   LOGIROUTE Computer Systems Inc., Montre´al, Que´bec, Canada
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↑ REFERENCES

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↑ **INDEX TERMS**

Primary Classification:
  H. Information Systems
  ↳ **H.4** INFORMATION SYSTEMS APPLICATIONS
    ↳ **H.4.2** Types of Systems
      ↳ **Subjects:** Decision support (e.g., MIS)

Additional Classification:
  J. Computer Applications
  ↳ **J.1** ADMINISTRATIVE DATA PROCESSING
    ↳ **Subjects:** Business

General Terms:
Design, Theory

Keywords:
geographical information system, mapping, routing, transportation

↑ **Collaborative Colleagues:**

Suzanne Chapleau: Michel Cormier
Pierre Cossette
Guy Lapalme
Jean-Marc
Rousseau
Serge Roy

Michel Cormier: Suzanne Chapleau
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